

ACTA1/ α -actin Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5259

Specification

ACTA1/ α -actin Antibody (C-term) - Product Information

Application	IF, WB, IHC-P, FC,E
Primary Accession	P68133
Other Accession	P68136 , P68135 , P68137 , P68134 , P68139 , P68138 , P04751 , P68035 , P68033 , P68032 , P68034 , Q3ZC07 , P62738 , P62740 , P62737 , P62736 , P08023 , P62739 , P04752 , P10995 , NP_001091.1
Reactivity	Human
Predicted	Xenopus, Bovine, Chicken, Mouse, Rabbit, Rat, Pig
Host	Rabbit
Clonality	Polyclonal
Calculated MW	H=42;M=42;Rat=42 KDa
Isotype	Rabbit IgG
Antigen Source	HUMAN

ACTA1/ α -actin Antibody (C-term) - Additional Information

Gene ID 58

Antigen Region
346-375

Other Names
ACTA1; ACTA; Actin, alpha skeletal muscle; Alpha-actin-1

Dilution
IF~~1:10~50
WB~~1:1000
IHC-P~~1:10~50
FC~~1:10~50

Target/Specificity
This ACTA1/Alpha-actin antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-375 amino acids from the C-terminal region of human ACTA1/Alpha-actin.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ACTA1/ α -actin Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

ACTA1/ α -actin Antibody (C-term) - Protein Information

Name ACTA1

Synonyms ACTA

Function

Actins are highly conserved proteins that are involved in various types of cell motility and are ubiquitously expressed in all eukaryotic cells.

Cellular Location

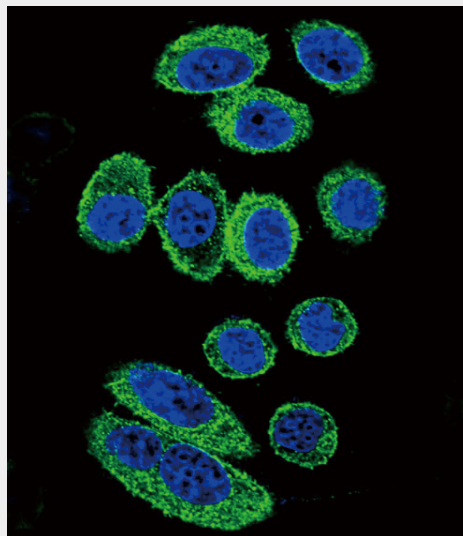
Cytoplasm, cytoskeleton.

ACTA1/ α -actin Antibody (C-term) - Protocols

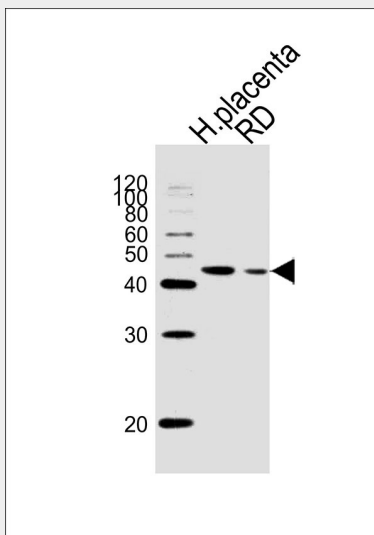
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

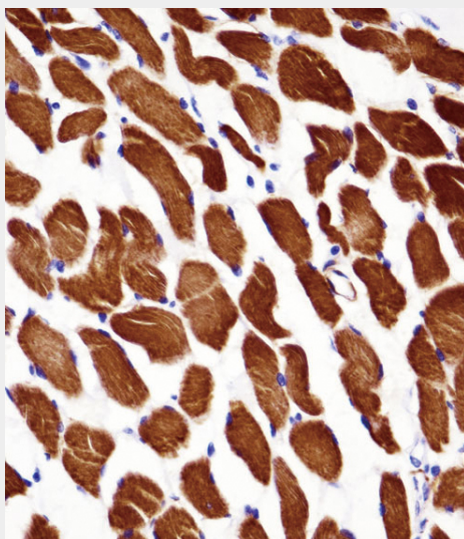
ACTA1/ α -actin Antibody (C-term) - Images



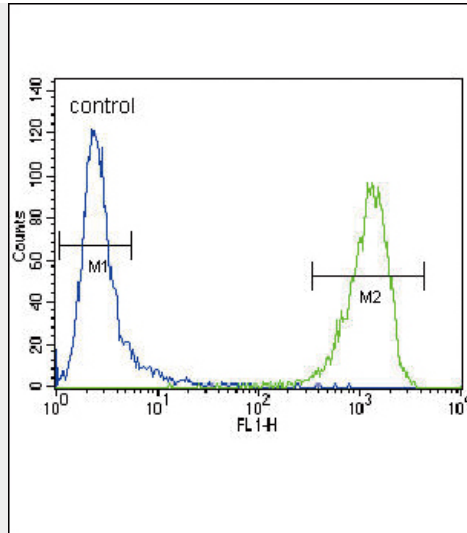
Confocal immunofluorescent analysis of ACTA1/ α -actin Antibody (C-term)(Cat#AW5259) with A549 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green).DAPI was used to stain the cell nuclear (blue).



Western blot analysis of lysates from human placenta tissue lysate, RD cell line (from left to right), using ACTA1/ α -actin Antibody (C-term)(Cat. #AW5259). AW5259 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody.



ACTA1/ α -actin Antibody (C-term) (AW5259) immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of ACTA1/ α -actin Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



ACTA1/ α -actin Antibody (C-term) (Cat. #AW5259) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ACTA1/ α -actin Antibody (C-term) - Background

The product encoded by this gene belongs to the actin family of proteins, which are highly conserved proteins that play a role in cell motility, structure and integrity. Alpha, beta and gamma actin isoforms have been identified, with alpha actins being a major constituent of the contractile apparatus, while beta and gamma actins are involved in the regulation of cell motility. This actin is an alpha actin that is found in skeletal muscle. Mutations in this gene cause nemaline myopathy type 3, congenital myopathy with excess of thin myofilaments, congenital myopathy with cores, and congenital myopathy with fiber-type disproportion, diseases that lead to muscle fiber defects.

ACTA1/ α -actin Antibody (C-term) - References

- Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010) :
- Haigh, S.E., et al. Neuromuscul. Disord. 20(6):363-374(2010)
- Yu, G., et al. J Clin Neurosci 17(6):766-769(2010)
- Yu, C.H., et al. PLoS ONE 5 (7), E11878 (2010) :
- Licastro, F., et al. Curr. Pharm. Des. 16(7):783-788(2010)